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**HW 4** Due on February 26th at 4:30 pm. Name: \_\_\_\_\_

(Words in parenthesis indicates the page that has notes which may help answer question.)

If you have a question about anything, you can write it here or just send me an email at rweigel@gmu.edu.

## 1. Syntax

---

What is wrong with each of these programs?

```
P = 1;
For i = [1,2,3]
    P = P+1;
end
```

```
a = 1;
for i = [1,2,3]
    P = P+1;
end
```

```
B = 1;
for i = [1,2,3]
    B = 2*b;
end
```

```
B = 1;
for i = [1;2;3]
    B = 2*B;
end
```

## 2. Long-hand to short-hand

---

Write an equivalent program using a for loop.

```
a = 1;
a = a + 1;
a = a + 1;
a = a + 1;
a = a + 1;
```

## 3. Long-hand to short-hand

---

Write an equivalent program using a for loop.

```
a = 1;
```

```
a = a + 1;  
b = a + 1;  
a = a + 1;  
b = a + 1;  
a = a + 1;  
b = a + 1;  
a = a + 1;
```

#### 4. Short-hand to long-hand

---

Write an equivalent program without using a for loop.

```
P = 19;  
for i = [1,2,3,4,5]  
    P = P*2.0;  
end
```

#### 5. Short-hand to long-hand

---

Write an equivalent program without using a for loop.

```
P = 19;  
for i = [1,2,3,4,5]  
    P = P + 1;  
    Q = P + 2;  
end
```

#### 6. Short-hand to long-hand

---

Write an equivalent program without using a for loop.

```
P = 19;  
for i = [1,2,3,4,5]  
    P = i*2.0;  
end
```

#### 7. Short-hand to long-hand

---

Write an equivalent program without using a for loop.

```
BOB = 19;  
for BOB = [1:10]  
    P = BOB + 1;  
end
```

#### 8. Short-hand to long-hand

---

Write an equivalent program without using a for loop.

```
BOB = 19;  
for BOB = [10:-1:1]  
    P = BOB + 1;  
end
```